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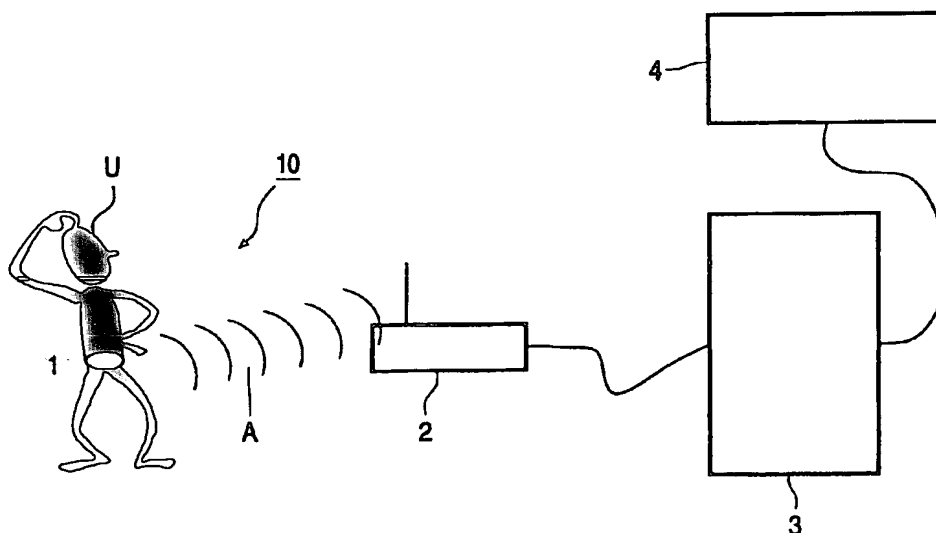
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[Continued on next page]

(54) Title: A DETECTION AND ALARM SYSTEM



(57) Abstract: A system for continuous monitoring of a physiological condition of a recipient arranged to alarm the recipient and a remote service center in case an abnormality in the physiological condition occurs. For that purpose the system comprises monitoring means provided with a set of electrodes to be arranged on the body of the recipient and to derive a signal related to said condition, detection means actuated by said electrodes and arranged to process said signal in order to derive a feature in the signal characteristic to said abnormality; alarm means arranged to trigger an alarm signal upon a detection of said feature by the detection means; transmission means arranged to transmit the alarm signal to a station responsive to said alarm signal. The system architecture is arranged in such a way that only the alarm signal is transferred to the station thus allowing the monitoring in a continuous way.

WO 03/082093 A3



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61B5/00 G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 729 203 A (OKA TOHRU ET AL) 17 March 1998 (1998-03-17)	1,2,6
Y	column 4, line 40 - line 54 column 6, line 58 - column 7, line 13 -----	3
Y	US 5 692 215 A (CHUTE DOUGLAS L ET AL) 25 November 1997 (1997-11-25)	3
A	column 4, line 10 - line 28; figure 1 -----	1,2
X	US 6 287 252 B1 (LUGO MICHAEL V) 11 September 2001 (2001-09-11) column 10, line 17 - line 54; figure 1 -----	1,2

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

16 June 2003

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 03/00842

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-3,6

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3,6

System for detecting an abnormality in a physiological condition of a user and for alerting people to said abnormality, further comprising a control of a domestic device

2. claim: 4

System for detecting an abnormality in a physiological condition of a user and for alerting people to said abnormality, further comprising a positioning means to determine the location of the user

3. claims: 5,7

System for detecting an abnormality in a physiological condition of a user and for alerting people to said abnormality, further comprising range detection means

4. claims: 8,9

System for detecting an abnormality in a physiological condition of a user and for alerting people to said abnormality, further comprising a motion sensor

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/00842

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5729203	A	17-03-1998	NONE	
US 5692215	A	25-11-1997	AU 4687596 A CA 2208594 A1 WO 9620449 A1 US 6108685 A	19-07-1996 04-07-1996 04-07-1996 22-08-2000
US 6287252	B1	11-09-2001	AU 6489600 A WO 0100085 A1	31-01-2001 04-01-2001